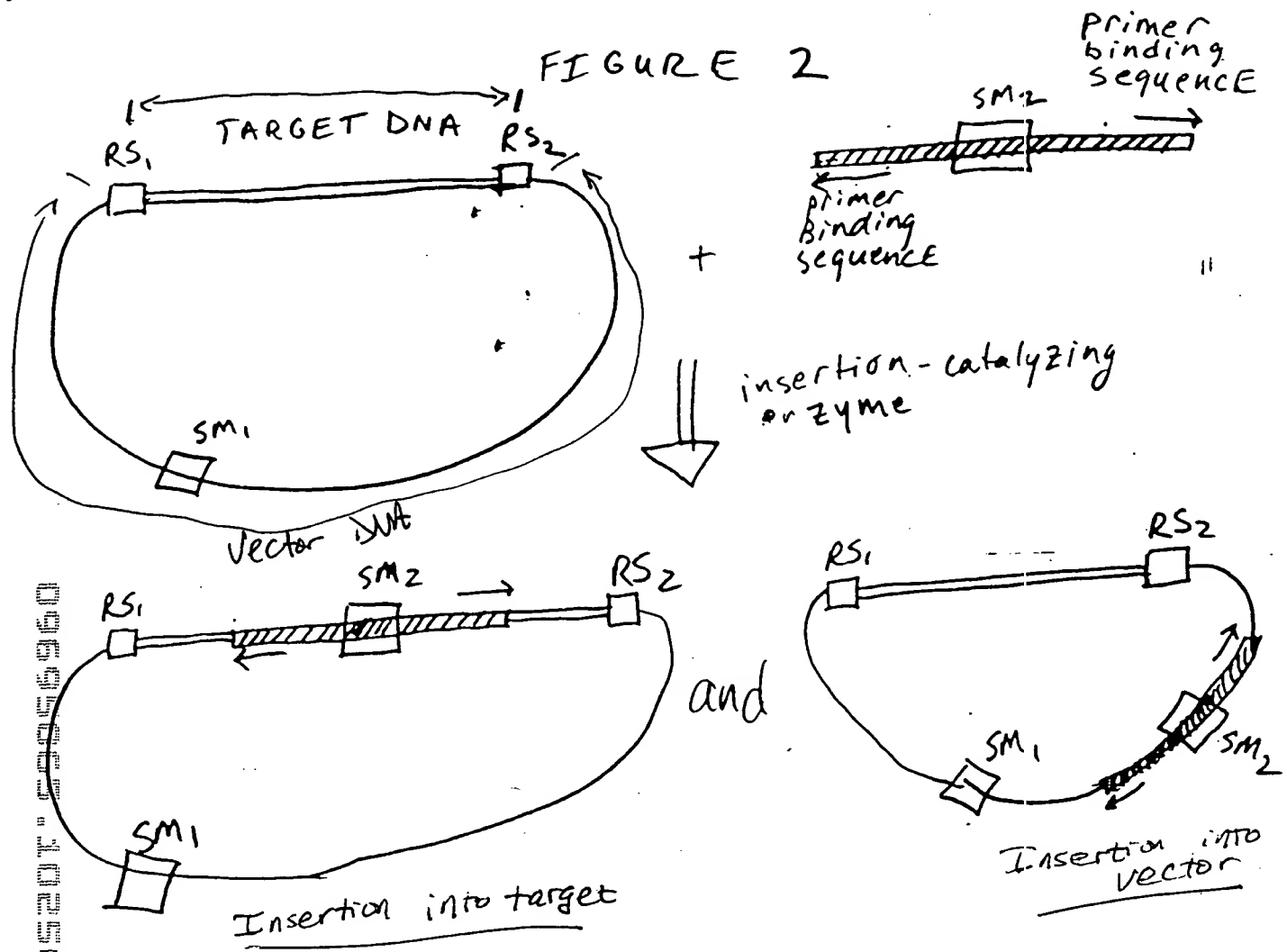
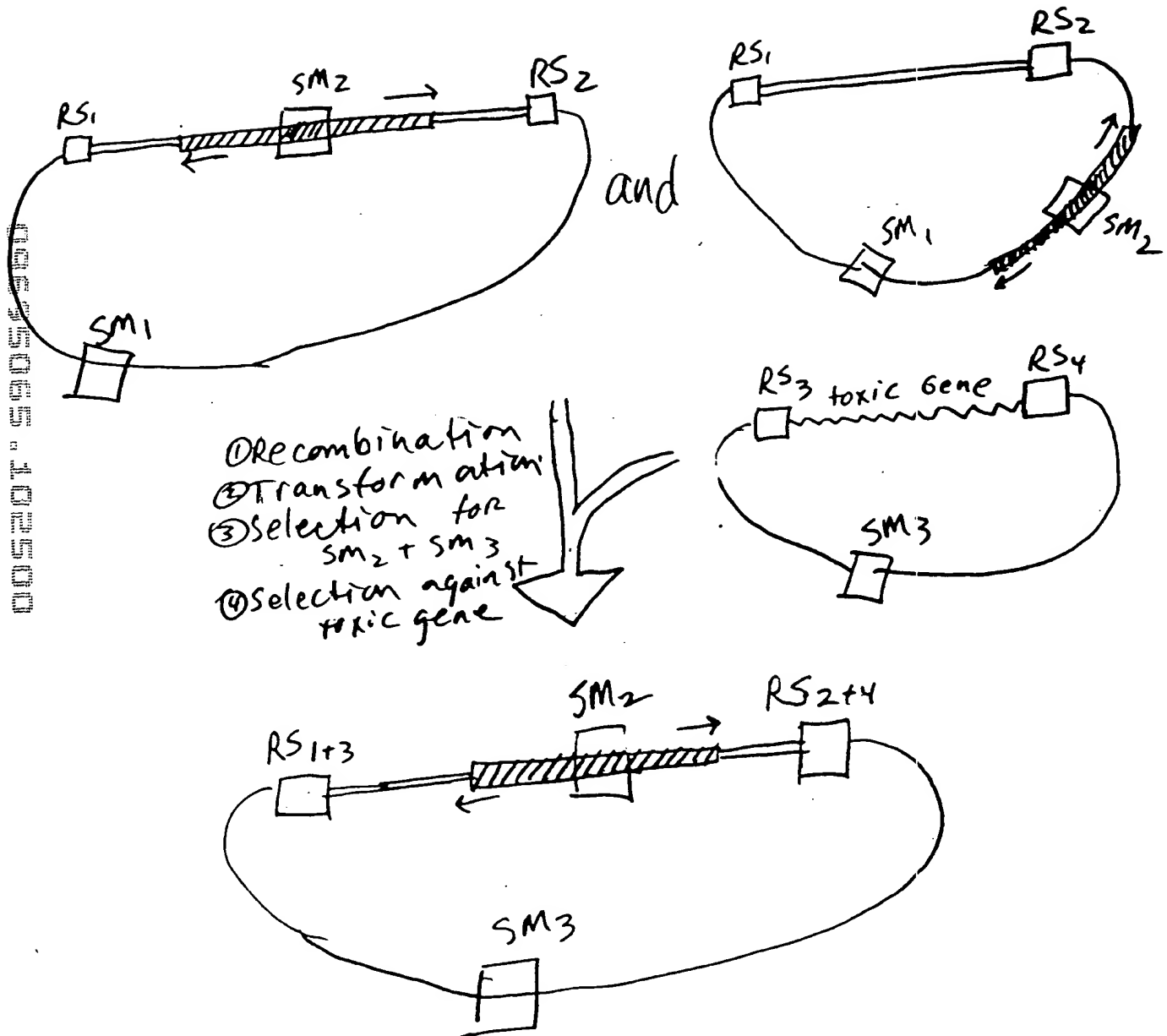


FIG.1

FIGURE 2



# FIGURE 3



# FIGURE 4A

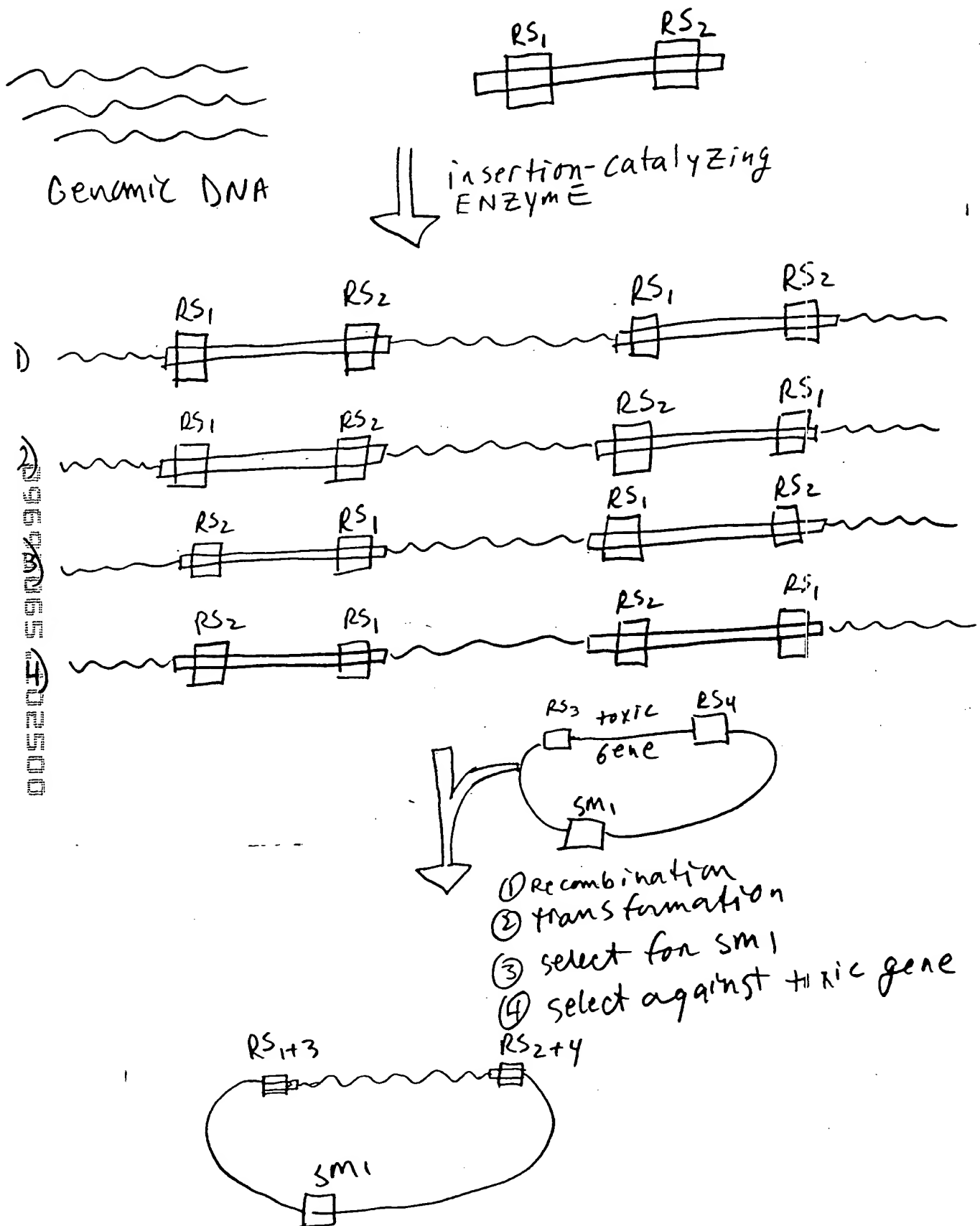
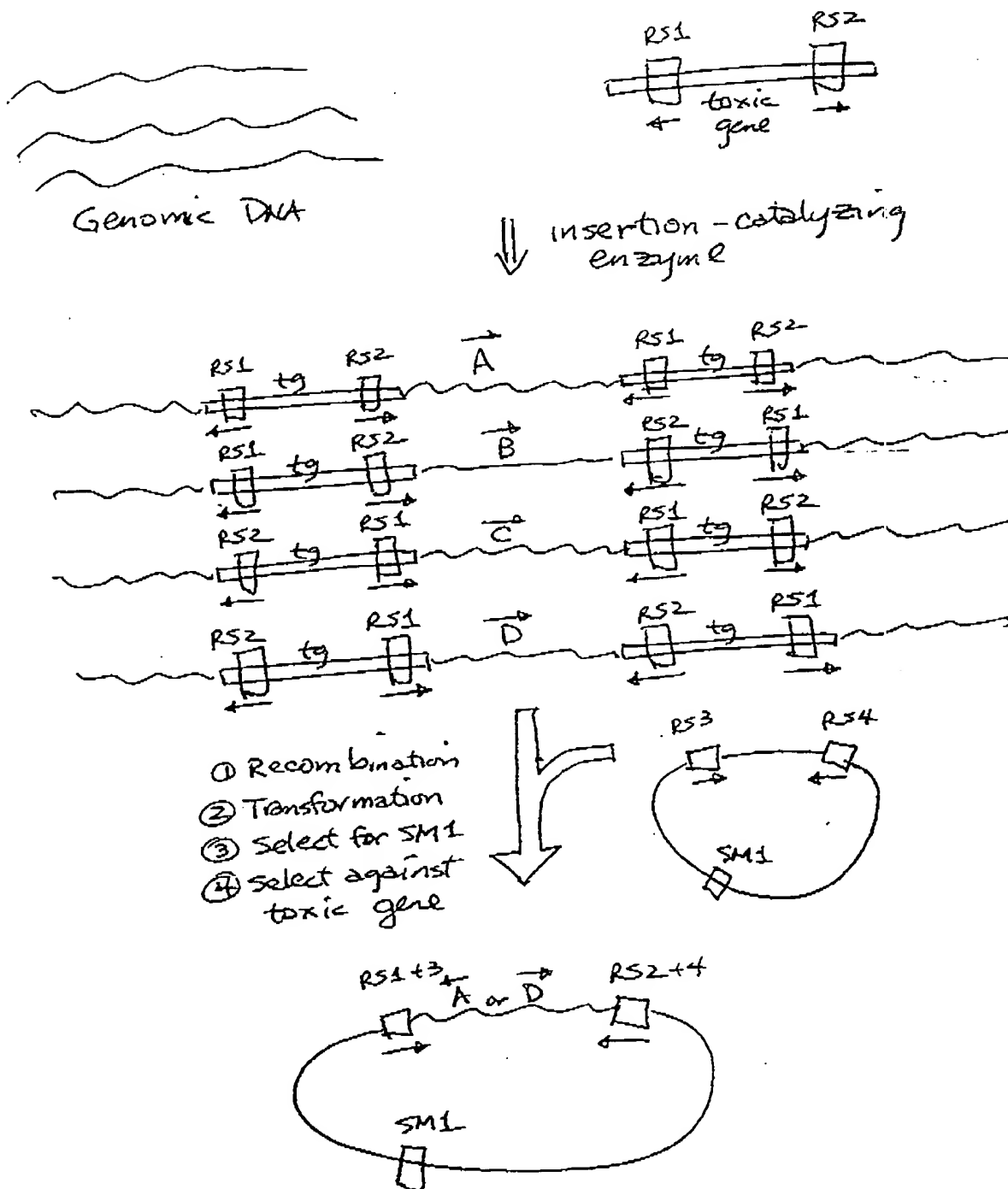


Figure 4B

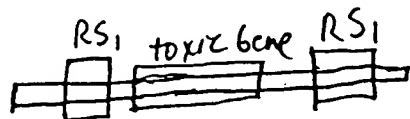


09695065-102500

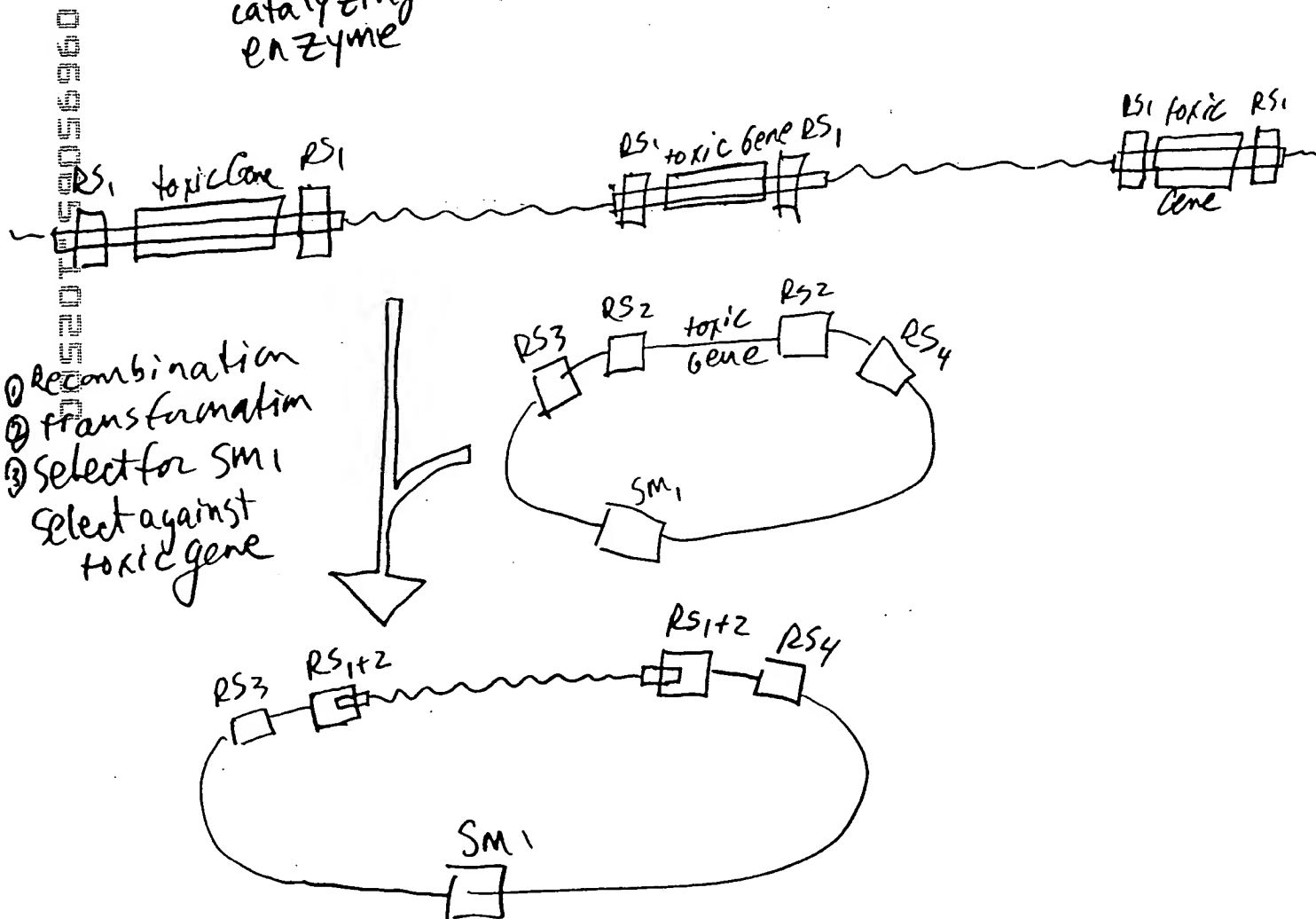
# FIGURE 5



# FIGURE 6

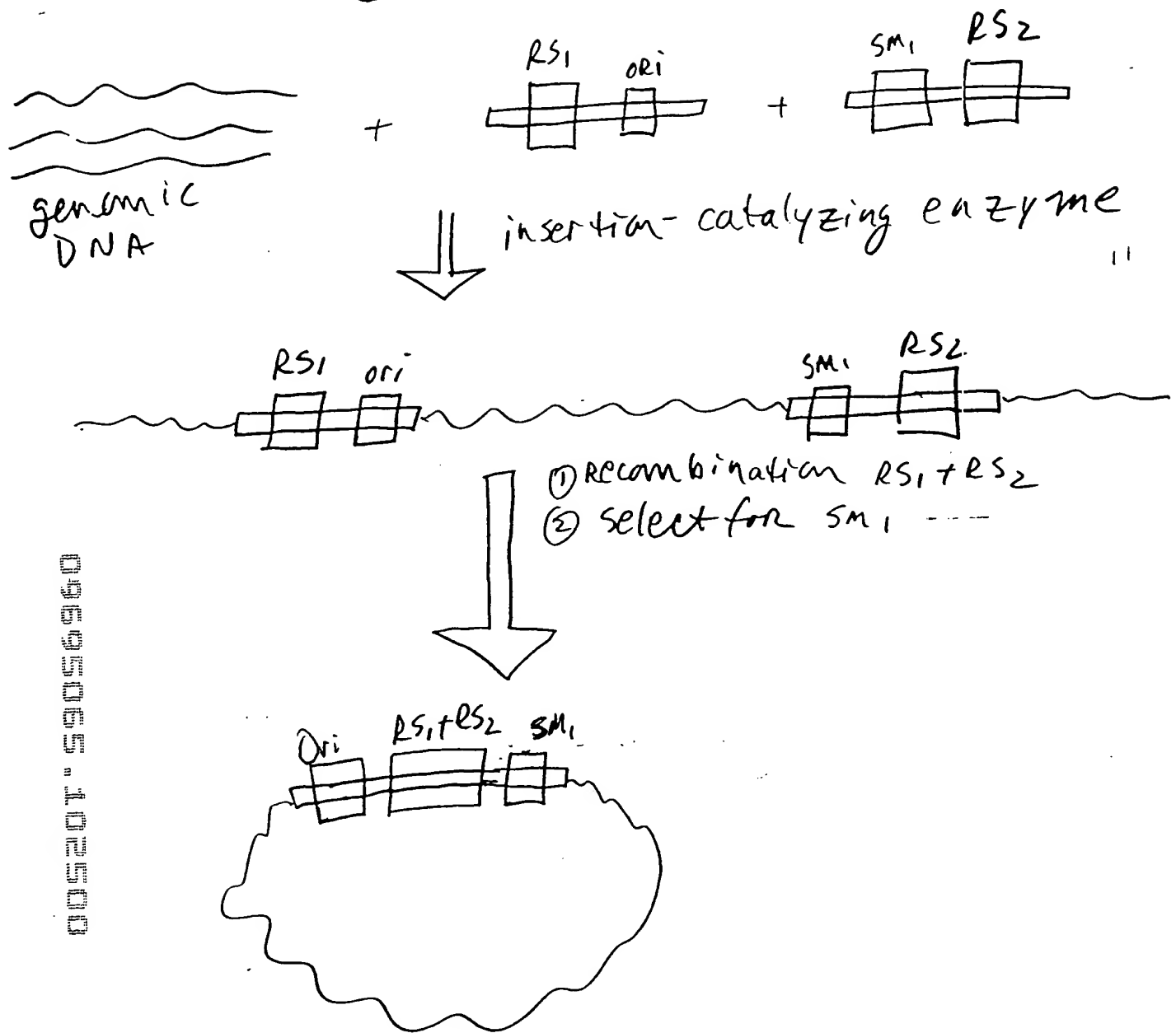


insertion-catalyzing enzyme



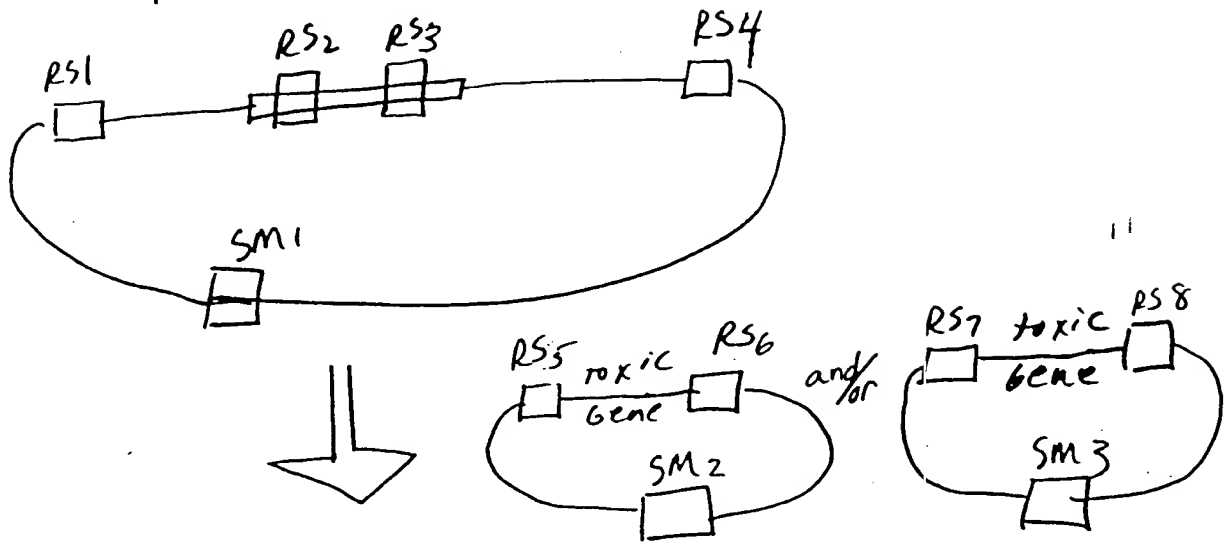
- ① recombination
  - ② transformation
  - ③ select for  $SM_1$
- select against toxic gene

FIGURE 7

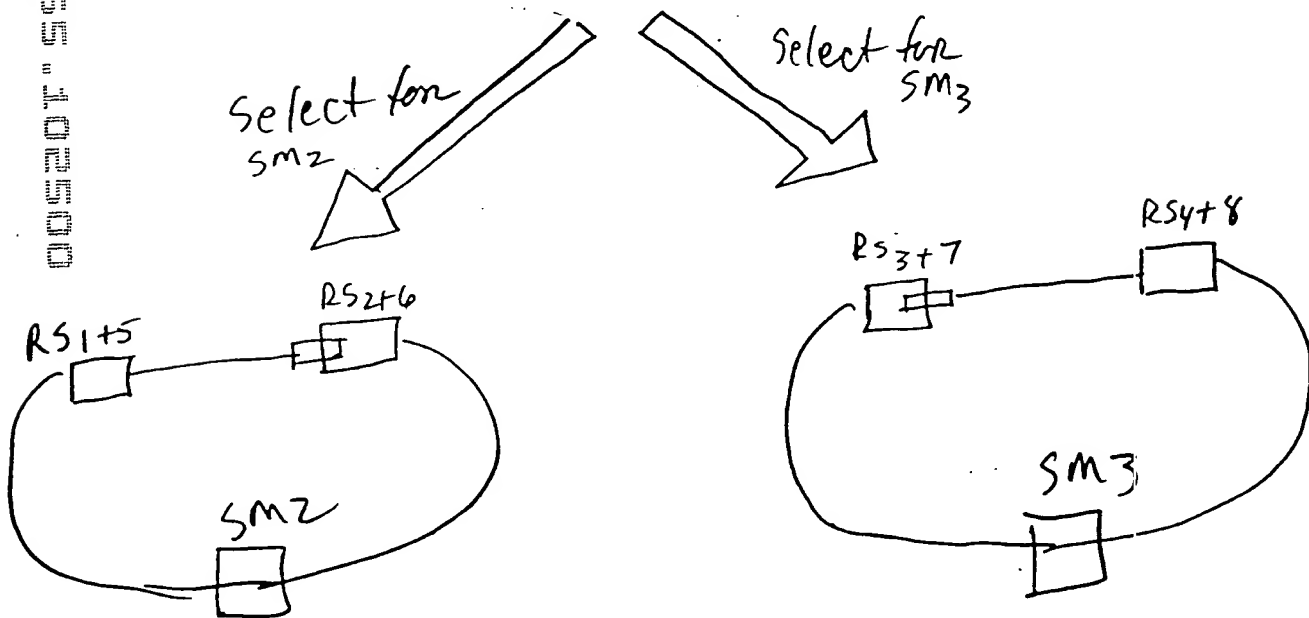


09695065.102500

# FIGURE 8A

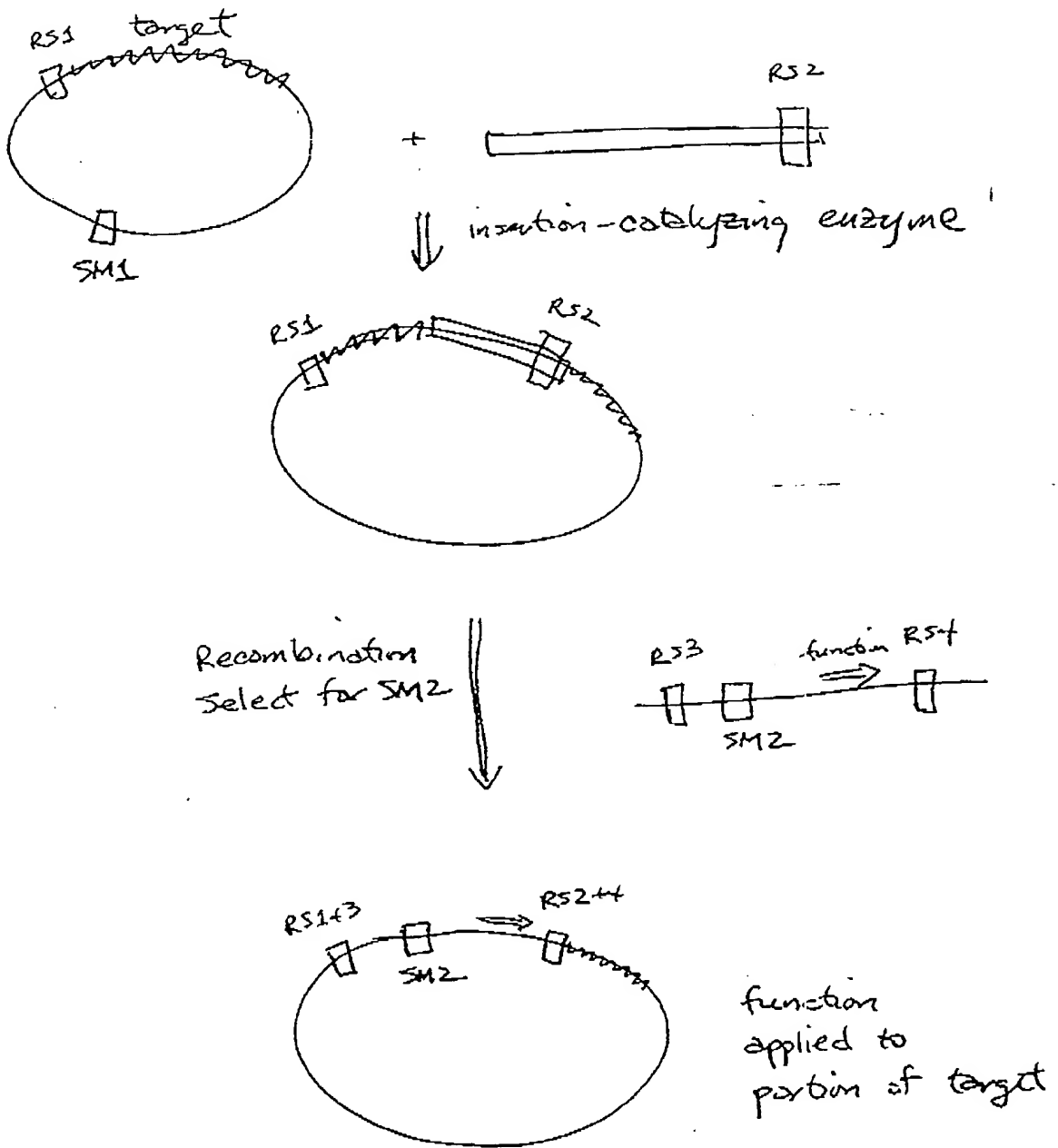


- ① Recombination
- ② trans formation
- ③ select against toxic Gene



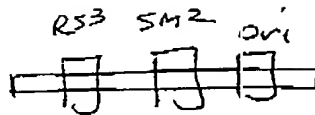
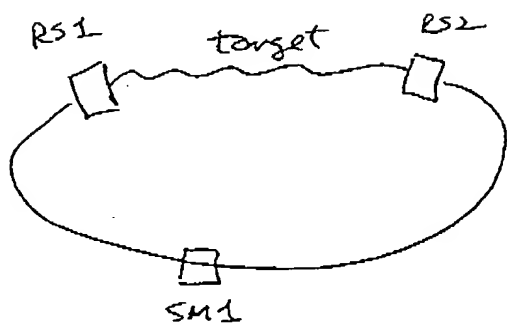
09695065-102500

Figure 8B

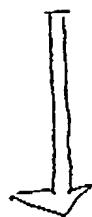


09695065-102500

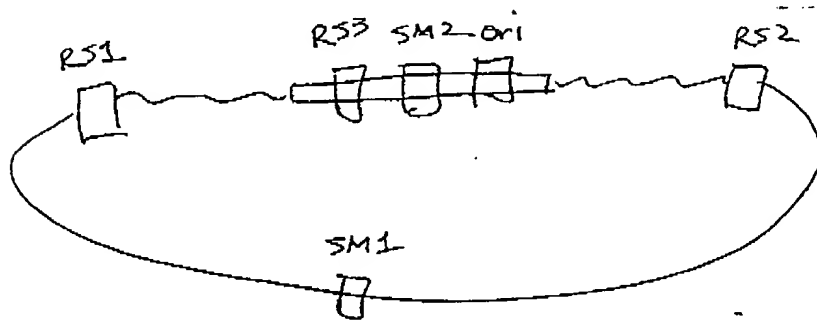
Figure 9



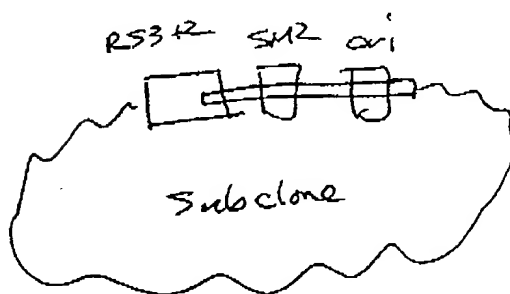
+



insertion catalyzing enzyme

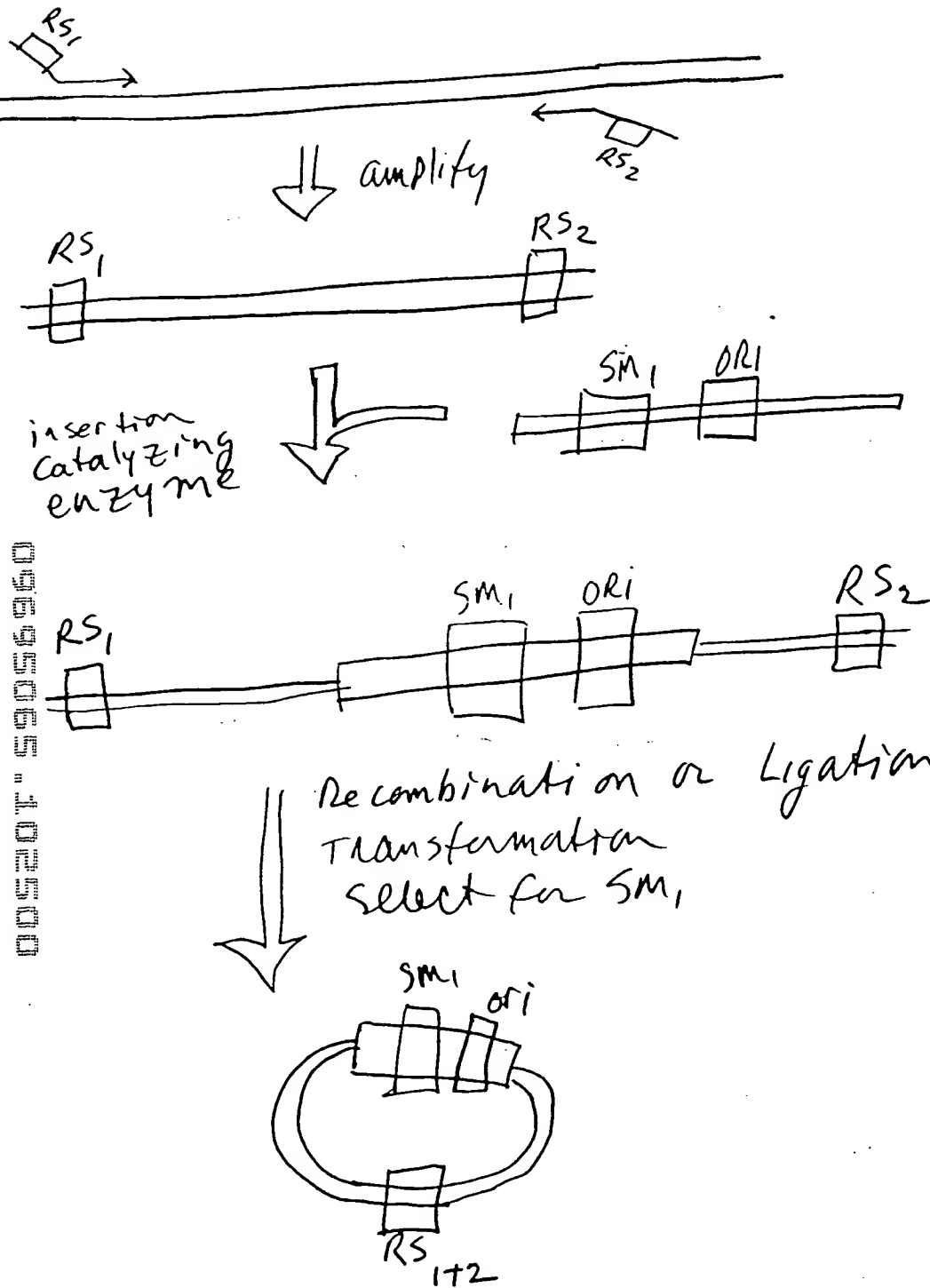


- ① Recombination R53+R52
- ② transformation
- ③ Select for SM2
- ④ Screen for absence of SM1



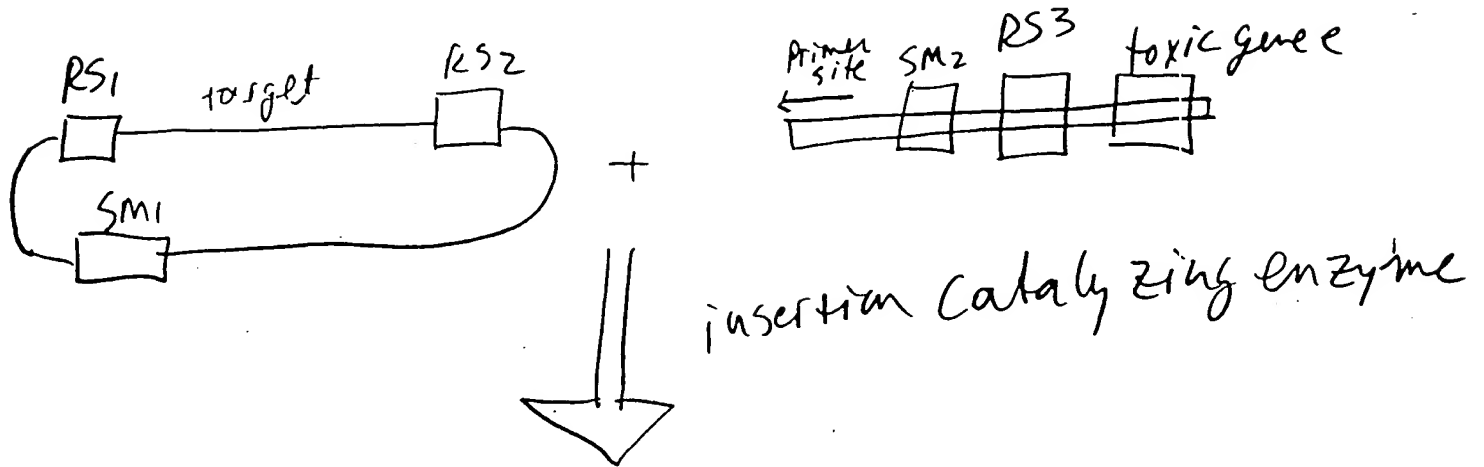
0055055-102500

FIGURE 10

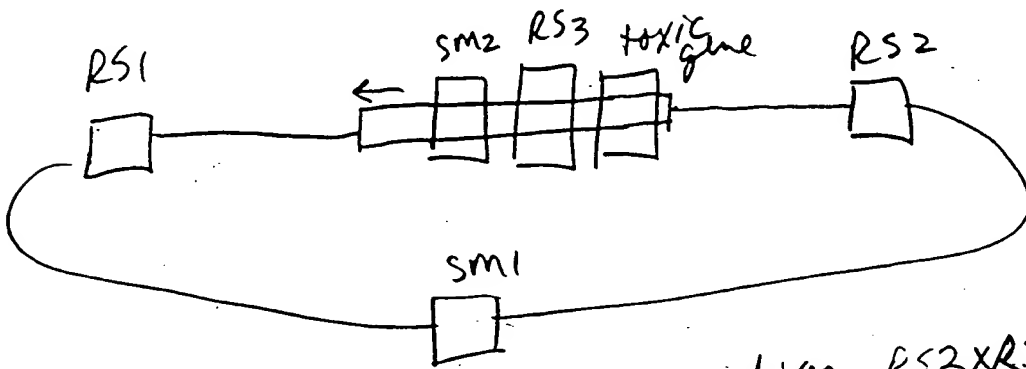


005505-102500

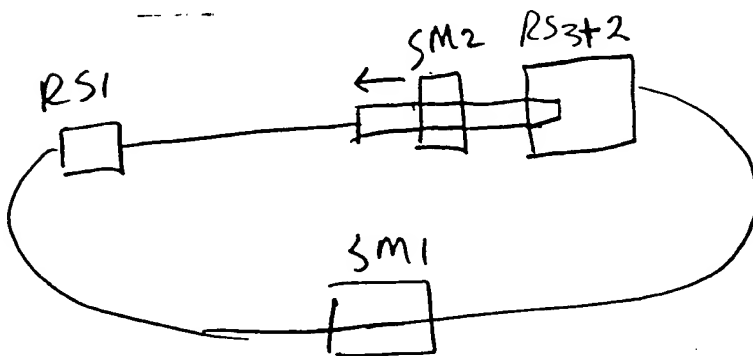
# FIGURE 11



insertion catalyzing enzyme

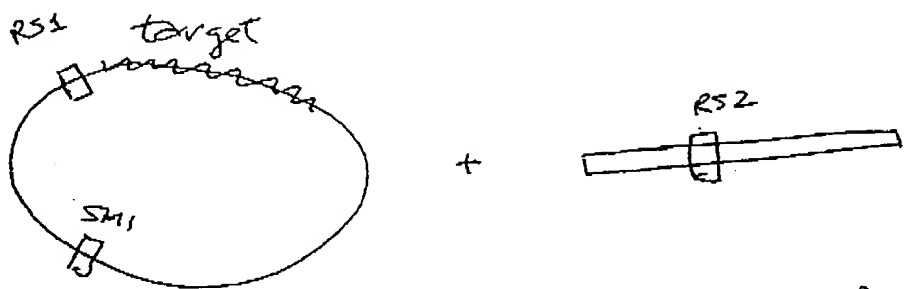


recombination  $R52 \times R53$   
transformation  
select for  $SM1$ ,  $SM2$   
select against  $toxic\ gene$

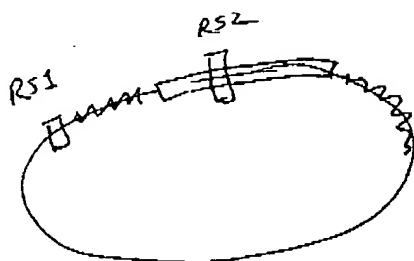


09695065.102500

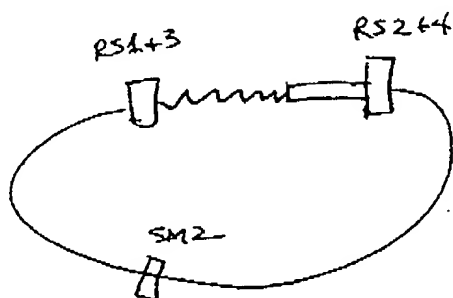
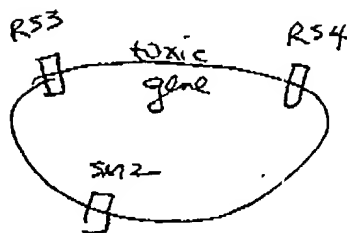
Figure 12



Insertion catalyzing enzyme



Recombination Transformation  
Select for SM2  
Select against toxic gene



Clone of deleted segment

005201-59056960

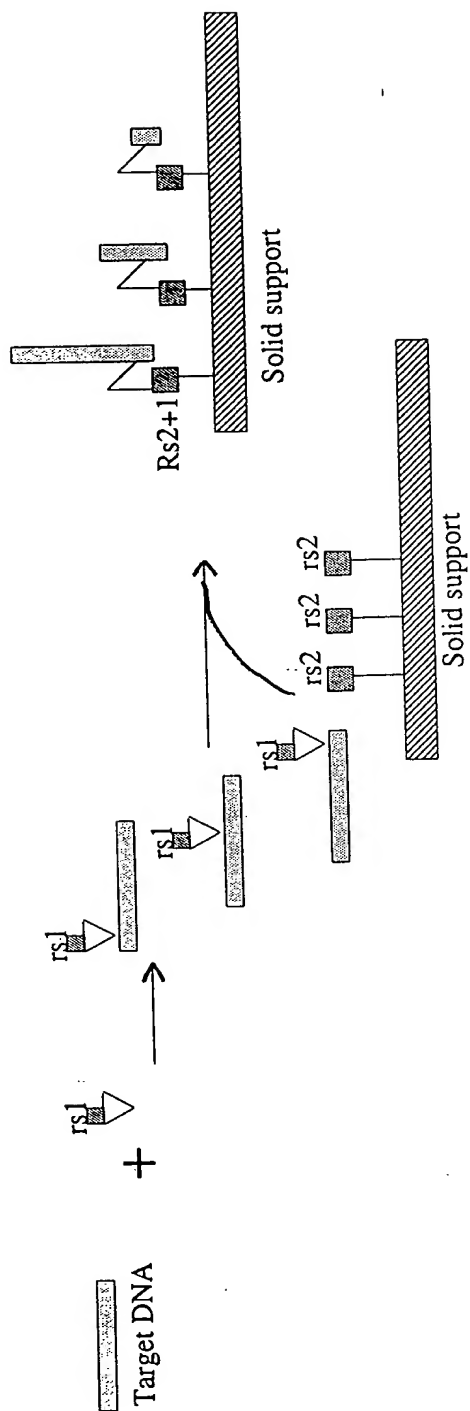


FIGURE 13